

# HORIZON

## Horizon Hobby Distributors, Inc.

January 13, 1993

Dear Dealer:

The future of our R/C industry and our very livelihood is at risk.

The Federal Communications Commission (FCC) is considering an action that will have a profound effect on model frequency use. This massive restructuring inserts two new frequencies between those presently assigned for modeling use and commercial users. The net result is that we will have a user, higher in power, transmitting only 2.5 KHz away from many of our 72 MHz and 75 MHz frequencies.

The proposal is referred to as PR Docket 92-235.

The FCC will receive formal comments prior to February 26, 1993. If they decide to implement this proposal, we will lose the safe use of most of our frequencies by 1996.

What can we do about this?

We need to act fast to contact the FCC and our Congressmen. Likewise, it's imperative that every R/C modeler and interested citizen do the same NOW. Here's how:

1. Send a personal letter or a copy of the enclosed dealer sample letter on your letterhead immediately to the FCC and your Congressmen.
2. Make copies of the two consumer letters enclosed and distribute them to every customer/interested citizen. If you can make a mailing to your customers, please do it.

Encourage any modeler who wants to write his own letter, as opposed to the form letter, to do so.

Since personalized letters are more effective, you and your customers can find out the names of your Representative and/or Senator by calling Capitol Directories at (202) 224-3121. You might want to include that information and/or the phone number in your customer correspondence as well.

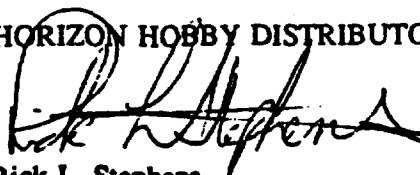
The AMA, along with the R/C Manufacturers Association, is now filing a formal letter of comment to the FCC through legal counsel. The attorneys have recommended that our best line of defense is to have a couple hundred thousand people contact the FCC and our Congressmen immediately.

Please get involved. This is our only chance to let our government know how this change will impact our industry.

If you have any questions, please contact us.

Sincerely,

HORIZON HOBBY DISTRIBUTORS, INC.



Rick L. Stephens  
President

**Sample Letter to Senator or Representative (from consumer)  
Regarding FCC Rule Making**

[Date]

The Honorable [ Name ]  
[ Address ]

Dear Mr./Ms. [ ] (if to Representative):

Dear Senator [ ] (if to Senator):

[Begin with a description of the writer's interest. E.g., "I am retired and derive many hours of enjoyment from constructing and operating radio-controlled model airplanes." Or, "I have been interested in aviation for as long as I can remember. I am very active in a local club whose members enjoy constructing and operating radio-controlled model airplanes. I personally own \_\_\_\_ radios, \_\_\_\_ R/C models and have a workshop full of other products necessary to operating my models."]

I am very concerned about the proposed rule that is currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted the new rule will greatly reduce the usability of frequencies currently assigned for R/C model use and increase the risk of accidents and attendant liability.

Our radio-control frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio-control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

The Notice of Proposed Rule Making (NPRM) in PR Docket 92-235 replaces Part 90 of the rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 MHz band (for R/C aircraft) and 10 of the 30 frequencies on the 75 MHz band (for R/C cars and boats) now used by hobbyists. In fact, more channels will likely be affected.

When we operate our R/C models, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly decreased.

I don't think it is wise of the FCC to seek to expand the operation conditions of land mobile radio users at the expense of the radio-control modelers. The FCC may not think we are as important as business users of radio, but we have a considerable investment in our models and in our radio equipment. It is a sizeable industry that must be saved from these detrimental FCC actions. The hobby provides many hours of enjoyment to hundreds of thousands of people like myself and contributes to the advancement and development of the commercial aviation industry.

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposal PR Docket 92-235 for the 72-76 MHz band. We all need your help urgently because the FCC has a deadline of February 26, 1993 after which it may become more difficult to avoid halting these proposals from going into effect.

Sincerely,

Sample Letter to FCC (from consumer)  
Regarding FCC Rule Making

[Date]

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

Dear Sirs:

It has recently come to my attention that the Federal Communications Commission (FCC) is considering an action that will severely limit and potentially eliminate a very important hobby of mine, radio controlled (R/C) model airplanes, helicopters, cars and boats.

Your Notice of Proposed Rule Making (NPRM) in PR Docket 92-235 replaces Part 90 of your rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 MHz band and 10 of the 30 frequencies on the 75 MHz band now used by hobbyists. In fact, more channels will likely be affected.

This action will have a severe, detrimental impact upon me and the entire R/C hobby industry. If put into effect, my airplane or helicopter could easily be shot out of the sky by a mobile user I'd have no way of knowing about. This creates a severe health hazard.

I have been involved in this hobby for \_\_\_\_\_ years. I own \_\_\_\_\_ radios and \_\_\_\_\_ model airplanes, helicopters, cars and boats. In addition, I have numerous engines, motors, chargers, field accessories and other products necessary to support my hobby. When you consider there are hundreds of thousands of other R/C hobbyists in the U.S. just like me, these proposed rule changes will affect a lot of people economically and in terms of enjoyment.

I urge you to reconsider this. Keep 10 Khz spacing between all frequencies on 75 MHz and 72 MHz bands available for safe use by R/C enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.

Thank you for your consideration.

Sincerely,

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JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

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JAN 26 1993

FCC MAIL ROOM

Kenneth De Fusco  
2 Jacob Road  
Southbury, CT 06488

21 January 1993

Federal Communications Commission  
1919 M Street, NW  
Washington DC 20554

Concerning: PR Docket 92-235

Dear Sir:

I actively participate in model aviation. This pastime is both a hobby and a sport for me and consumes many hours of my leisure time each week. I am currently a member of a local flying club of approximately seventy-five members. The club's main interest is of course model aviation, however, we involve ourselves in other activities where we can meld our interests with projects supporting the general community. The hobby provides a constructive outlet for our youngsters and is responsible for more than a few developing career goals in engineering or aviation.

Our hobby provides many hours of enjoyment to thousands like me and contributes to the advancement and development in the general aviation industry. It also spawns a considerable amount of economic activity related to the development, manufacture, marketing, and sales of model aviation products. The range of this activity extends from large corporations to the one person cottage industry.

When we fly our models, we go to great lengths to assure safety for ourselves, bystanders and our equipment. Personal injury is always paramount, but selfishly, many of us have substantial investments in our equipment and wish to protect it. Advancements in recent years in materials, engines and radio gear have made unanticipated failures more of a rarity. Of specific interest in this arena has been the institution of more narrow band radio frequencies available for our use. The institution of more and better frequencies has been a boon to safety in our hobby.

The proposed incursion of land mobile radio users into the 72-76 MHz band as proposed in PR Docket 92-235 will negatively affect model aviation enthusiasts. These changes will undermine achievements in model flight safety by causing cross channel interference - effectively reducing our usable safe frequencies.

Please help me in defeating changes that impact the safe enjoyment of my pastime. Do not allow the FCC to carry out its proposals for the 72-76 MHz band.

Respectfully yours;



Kenneth De Fusco

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JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Christopher De Fusco  
2 Jacob Road  
Southbury, CT 06488

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JAN 26 1993

FCC MAIL ROOM

21 January 1993

Federal Communications Commission  
1919 M Street, NW  
Washington DC 20554

DOCKET FILE COPY ORIGINAL

Concerning: PR Docket 92-235

Dear Sir:

I am actively involved in model aviation. Model aviation is both a hobby and a sport for me, and it consumes several hours of my time each week. I am currently active in a local club whose approximately 75 members, like me, enjoy constructing and operating radio controlled model airplanes. The club is a focal point of social activity, both at the flying field and at monthly meeting.

I am very concerned about proposed rules that are currently under consideration by the Federal Communication Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model airplanes.

Our radio control frequencies are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio control frequencies and cause interference to the radio control operations. I am told that of the 50 frequencies that are presently available for radio control of model airplanes, only 19 frequencies will be left if these rules are adopted.

When we fly our model airplanes under radio control, we go to great lengths to assure safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio frequencies. If the number of usable frequencies is diminished as proposed the frequencies will become congested and the margin of safety will be greatly decreased.

Please understand that many model airplanes have wing spans of 10 feet and weigh as much as 30 to 40 pounds. We often fly our models at organized events and contests where hundreds of operators participate. We need the use of our full compliment of radio frequencies in order to assure a safe flying environment.

I do not think it is wise for the FCC to seek to improve the operating conditions of land mobile radio users at the expense of radio control modelers. The FCC may not think we are as important as business users of radios, but we have a considerable investment in our models and in our radio equipment. The sport of aeromodeling provides many hours of enjoyment to thousands of people like myself and contributes to the advancement and development of the commercial aviation industry. It also contributes a considerable amount of economic activity -

in the form of purchases of products and services from hobby manufacturers - and I would hate to see the industry that supports this hobby crumble as a result of the proposed changes. Finally, the hobby provided a constructive release for our younger generation who may be inspired to enter aviation or engineering related careers.

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposals for the 72-76 MHz band.

Sincerely;

Christopher De Fusco

A handwritten signature in black ink that reads "Chris DeFusco". The signature is written in a cursive, slightly slanted style.

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To: FCC  
1919 M ST., NW  
Washington, DC 20510

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

JAN 26 1993

FCC MAIL ROOM

Subject: NPRM - PR Docket 92-235

Date: January 18, 1992

Sirs:

As a concerned citizen and a modeler, I am concerned about the current proposed rules that are under consideration by the Federal Communications Commission (FCC). If the proposed NPRM-PR Docket 92-235 is adopted, these new rules will greatly impact my ability, as well as the hundreds of thousands of other radio controlled enthusiasts, to enjoy our great hobby. This proposal will render 60% of our frequencies in the 72 MHZ band unusable and greatly increase the risk of accidents and attendant liability for controlling model airplanes.

Your proposal to separate the frequencies by addition of new bands at 2.5KHZ separation with the tolerance that will allow these new users to overlay our current frequencies (based on your technical specifications) will render most of our frequencies unusable.

Modelers in general have invested a great amount of money and time in our radio equipment and our models (the average cost of a flying model with attendant equipment is over \$500+ with many costing above \$1500). Multiply this by the number of modelers in the US and by the average number of models (3 models per flyer-estimated) and you can see that we have invested a large sum. In addition, we work together to improve our community by club work and shows to inform and assist in any way we can.

I do not think it is wise for the FCC to seek to improve the operating conditions of land mobile radio users at the expense of radio control modelers. Our hobby and use of these frequencies is as important to the overall quality of life in the United States as the business users of radios. I believe that the FCC has the responsibility to look at other options to meet the needs of the Land Mobile Service and not impact the current users of the 72-76 MHZ band.

Sincerely,

  
Thomas R. Hagney  
9904 W. 106th Place  
Westminster, Colorado 80021-7318

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January 21, 1993

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JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Federal Communications Commission  
1919 Main Street, NW  
Washington, DC 20554

JAN 26 1993

FCC MAIL ROOM

Dear Sirs:

It has recently come to my attention that the Federal Communications Commission is considering an action that will severely limit and potentially eliminate a very important hobby of mine, radio controlled (R/C) model airplanes.

Your Notice of Proposed Rule Making (NPRM) in PR Docket 92-235 replaces Part 90 of your rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 KHz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 KHz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 MHz band and 10 of the 30 frequencies on the 75 MHz band now used by hobbyists. In fact, more channels will likely be affected.

This action will have a severe, detrimental impact upon me and the entire R/C hobby industry. If put into effect, my airplane could easily be shot out of the sky by a mobile user. This creates a severe health and property hazard.

I have been involved in the hobby a little over two years and I own three radio-controlled airplanes. In addition, I have several engines, chargers, field accessories and other products necessary to support my hobby. When you consider there are hundreds of thousands of other R/C hobbyists in the U.S. just like me, these proposed rule changes will affect a lot of people economically and in terms of enjoyment.

I urge you to reconsider this. Keep 10 KHz spacing between all frequencies on the 75 and 72 MHz bands available for safe use by R/C enthusiasts. Please do not eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.

Thank you for your consideration.

Sincerely,



Brent A. Fuqua  
110 Iris Court  
Hendersonville, TN 37075





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FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

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January 21, 1993

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

Dear Sirs:

I am a hobby retailer who sells many radios, radio-controlled models, and related products in my store. In addition, I sell train products, plastic model kits and other related hobby products.

It has recently come to my attention that the Federal Communications Commission (FCC) is considering an action that has the potential to destroy my business and that of thousands of other retailers nationwide like me. The proceeding is PR Docket 92-235.

Your Notice of Proposed Rule Making (NPRM) in PR Docket 92-235 replaces Part 90 of your rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on 72 MHz band and 10 of the 30 frequencies on 75 MHz band now used by hobbyists. In fact, more channels will likely be affected.

If adopted the new rule will greatly reduce the usability of frequencies currently assigned for R/C model use and increase the risk of accidents and attendant liability. It will create a significant safety risk and severely damage a billion dollar industry. Loss of R/C sales will hamper my ability to stay in business to sell other hobby items as well.

I urge you to reconsider this action. Keep 10 Khz spacing between all frequencies on 75 MHz and 72 MHz frequencies available for safe use by R/C enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.

Thank you for your consideration.

Sincerely,

*Richard D. Seaf*

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FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

January 21, 1993

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

Dear Sirs:

It has recently come to my attention that the Federal Communications Commission (FCC) is considering an action that will severely limit and potentially eliminate a very important hobby of mine, radio controlled (R/C) model airplanes, cars and boats.

Your Notice of Proposed Rule Making (NPRM) in **PR Docket 92-235** replaces Part 90 of your rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 KHz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 KHz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 MHz band and 10 of the 30 frequencies on the 75 MHz band now used by hobbyists. In fact, more channels will likely be affected.


**This action will have a severe, detrimental impact upon me and the entire R/C hobby industry. If put into effect, my airplanes could easily be shot out of the sky by a mobile user I'd have no way of knowing about. This creates a severe health hazard.**

I have been involved in this hobby for only a few years. I own 5 radios and 7 model airplanes and cars. In addition, I have engines, motors, chargers, field accessories and other products necessary to support my hobby. When you consider there are hundreds of thousands of other R/C hobbyists in the U.S. just like me, these proposed rule changes will affect a lot of people economically and in terms of enjoyment.

**I urge you to reconsider this. Keep 10 KHz spacing between all frequencies on 72 MHz and 75 MHz bands available for safe use by R/C enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.**

Thank you for your consideration.

Sincerely,

  
Willard J. Davis  
AMA 446851

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JAN 26 1993

FLATLANDERS R/C MODELERS  
Grand Forks AFB, ND

FCC MAIL ROOM

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

20 Jan 93

Dear Sirs:

It has recently come to my attention that the Federal Communications Commission (FCC) is considering an action that will severely limit and potentially eliminate a very important hobby of mine, radio controlled (R/C) model airplanes, helicopters, cars and boats.

Your Notice of Proposed Rule Making (NPRM) in **PR Docket 92-235** replaces Part 90 of your rules with a new part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 KHz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 KHz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 MHz band and 10 of the 30 frequencies on the 75 MHz band now used by hobbyists. In fact, more channels will likely be affected.

This action will have a severe, detrimental impact upon me and the entire R/C hobby industry. If put into effect, my airplane or helicopter could easily be shot out of the sky by a mobile user I'd have no way of knowing about. This creates a severe health hazard

I have been involved in this hobby for 10 years. I own 3 radios and 4 model airplanes, helicopters, cars and boats. In addition, I have numerous engines, motors, chargers, field accessories and other products necessary to support my hobby. When you consider there are hundreds of thousands of other R/C hobbyists in the U.S. just like me, these proposed rule changes will affect a lot of people economically and in terms of enjoyment.

I urge you to reconsider this. Keep 10 KHz spacing between all frequencies on the 75 MHz and 72 MHz bands available for safe use by R/C enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.

Thank you for your consideration.

Sincerely,

  
Joel Garza  
1385-B Beech Ave.  
GFAFB, ND 58204

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January 21 1993

JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Kenneth A. Couch, Ph.D.  
232 Kensington Pl.  
Syracuse, NY 13210

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

DOCKET FILE COPY ORIGINAL

Dear Sirs:

I am writing regarding a Notice of Proposed Rule Making which was issued by the Federal Communications Commission (FCC) in December of 1992 (NPRM - PR Docket 92-235). The rule proposed by the FCC would allow the use of two new radio frequencies at a bandwidth very close to some bandwidths that are used for the control of mechanised machinery. Specifically, the bandwidths proposed relative to current usage are:

Current Model Channel 12	- 72.030 MHz
New Insert	- 72.0325 MHz
New Insert	- 72.0375 MHz
Present Commercial	- 72.040 MHz

The specific problem I have with this proposal is that the equipment to be used on the new insert frequencies, cellular telephone equipment, does not have a narrow enough bandwidth to avoid interfering with both the Model Channel 12 or the Present Commercial bandwidth. The reason this is a problem is that the Model Channel 12 is used to control what most people refer to as "radio control models" as well as machinery such as heavy overhead cranes in industrial settings. The radio-controlled models, in addition to being very expensive and subject to damage from loss of control, also use motors which often are in excess of one horsepower. Clearly, if radio interference caused one of these models to go out of control, potential injury would be a direct result. People do die occasionally in this hobby from being struck by the propellers. No doubt, signal interference would increase the hazard as well as potential legal liability. In the industrial setting, much of the same may be said. Imagine working in a heavy industrial setting and having a crane inexplicably go haywire because someone happened to be driving by using a cellular phone which operated on a nearby radio frequency.

Having outlined the hazards, I do not feel this is an issue which should pit the cellular phone industry against users of adjacent frequencies. The American Modelling Association through their legal counsel is replying to NPRM - PR Docket 92-235 with a proposal which, as I understand it, would allow the cellular phone industry to grow while allowing current users to remain unaffected. To me, that seems reasonable.

I would urge that you consider the alternative to NPRM - PR Docket 92-235 proposed by the American Modelling Association seriously and with an open mind. I am sure that you do want to let as many people as possible make use of the frequencies available. In this case, I am hopeful that the needs of the cellular phone industry and recreational users can both be accommodated.

Sincerely,

A handwritten signature in cursive script, appearing to read "Kenneth A. Couch".

Kenneth A. Couch, Ph.D.

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FCC MAIL ROOM

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

[Date]

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FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Dear Sirs:

I am a hobby retailer who sells many radios, radio-controlled models, and related products in my store. In addition, I sell train products, plastic model kits and other related hobby products.

It has recently come to my attention that the Federal Communications Commission (FCC) is considering an action that has the potential to destroy my business and that of thousands of other retailers nationwide like me. The proceeding is PR Docket 92-235.

Your Notice of Proposed Rule Making (NPRM) in PR Docket 92-235 replaces Part 90 of your rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on 72 MHz band and 10 of the 30 frequencies on 75 MHz band now used by hobbyists. In fact, more channels will likely be affected.

If adopted the new rule will greatly reduce the usability of frequencies currently assigned for R/C model use and increase the risk of accidents and attendant liability. It will create a significant safety risk and severely damage a billion dollar industry. Loss of R/C sales will hamper my ability to stay in business to sell other hobby items as well.

I urge you to reconsider this action. Keep 10 Khz spacing between all frequencies on 75 MHz and 72 MHz frequencies available for safe use by R/C enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.

Thank you for your consideration.

Sincerely,

*Clyde A. Snyder*

**Nickel City Hobby Supply**  
6869 Transit Rd.  
East Amherst, NY 14051

(716) 689-7985



DOCKET FILE COPY ORIGINAL  
**SIG MANUFACTURING CO., INC.**

401-7 South Front Street

Montezuma, IA 50171

ESTABLISHED IN 1951

Phone 515-623-5154 FAX: 515-623-3922

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JAN 26 1993

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The Federal Communications Commission  
1919 M Street NW  
Washington, D.C. 20554

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

JAN 26 1993

FCC MAIL ROOM

January 21, 1993

Dear Sir,

I work in the engineering department of Sig Manufacturing Company here in Montezuma. Sig manufactures products primarily for the radio control hobbyist. We employ 90 people and do about \$6.3 million dollars of business annually. I am very concerned about the proposed rules that are currently under consideration by the FCC. The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of the frequencies currently assigned for radio control model use and greatly increase the risk of accidents and attendant liability for controlling model airplanes. If these proposals go into effect, we will probably lose a large amount of our present business volume. This, of course, would have the ensuing effect on our employees and have a drastic effect on the economy of our small (1400 population) community.

The radio control frequencies that are affected are in the 72-76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with each other.

The FCC now wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio control frequencies and will cause interference to radio control operations. Currently there have been 50 frequencies presently available for radio control model airplane use. If the proposed FCC plan goes into effect, this number will drop to 19. That amounts to a 62% loss in available frequencies. The loss of these frequencies will definitely have a very negative impact on our business here at Sig Manufacturing Company because it will greatly limit our customer base.


When flying models under radio control, we go to great lengths to assure the safety of operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is reduced as proposed by the FCC, the remaining frequencies will become

congested and the margin of safety will be greatly decreased. Many model airplanes have wing spans up to 10 feet and can weigh as much as 30 or 40 pounds. These models themselves are expensive to build; but more to the point, they are capable of causing property damage, serious injury, or even death if radio interference causes the operator to lose control of the model. Because of the mobile nature of the stations to be added to the band, a model operator would never know when or where complete, practically on-channel interference, would literally shoot our models out of the sky. This is because of two reasons, first the proposed transmitters are four times more powerful than those for radio control use and the proposed spacing is only 2.5 KHz apart. Turning on one of these mobile transmitters would completely swamp out our radio control signal and cause complete loss of control of the model.

As it is now, radio control model airplane flyers enjoy a very safe and fulfilling pastime. I don't think it is wise of the FCC to seek to improve the operating conditions of land mobile radio users at the expense of radio control modelers. The FCC may not think we are as important as the business users of radios, but there are more people involved than just the radio control modelers. There are the 89 other employees of Sig Manufacturing Company and countless others employed by other manufacturer's in the hobby industry. In our case the loss of radio control frequencies will mean the definite loss of jobs right here in Iowa.

We do not want to see the loss of any part of our business or do we want to see the safe enjoyment of radio control model flying to be compromised for our customers either. Please help us by not allowing the FCC to carry out its proposals for the 72-76 MHz band.

Sincerely yours,

A handwritten signature in cursive script, reading "David Falkenhagen", with a long horizontal flourish extending to the right.

David Falkenhagen  
Product Engineer



RECEIVED

JAN 26 1993

FCC MAIL ROOM

FCC  
1919 M Street, NW  
Washington, DC 20554

Re: NPRM - PR Docket 92-235

Dear Sir:

**Please Vote AGAINST PR Docket 92-235!**

Martin G. Crawley  
10 Kiltie Drive  
Pittsburgh, PA 15235

January 22, 1993

DOCKET FILE COPY ORIGINAL

RECEIVED

JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

I am writing you concerning the proposed rule changes now being considered by the Federal Communication Commission outlined by the document PR Docket 92-235. This document calls for a massive frequency restructuring and would have extreme consequences for Remote Control (R/C) frequency users. As a R/C modeler and a member of the Academy of Model Aeronautics (AMA), I wish to voice my concern as to the impact this proposal would have upon the 165,000 members of the AMA and myself.

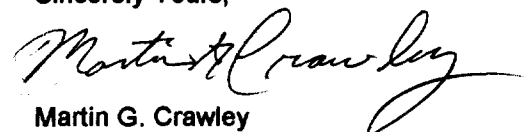
The proposed changes could have a profound effect upon the safety and economic concerns of R/C modeling. Safety is of the greatest concern. Many R/C model airplanes weigh well over 20 pounds and travel at speeds of over 100 miles per hour. If a model airplane of this size and speed were to get out of control because of frequency interference it could represent a serious safety hazard, such as the unnecessary loss of personal property and/or the tragic loss of life. Time invested in building a R/C model airplane can range from several weeks to many years. Monies invested in just one model airplane can exceed thousands of dollars.

The restructuring proposed by PR Docket 92-235 calls for the insertion of two frequencies between those presently assigned for modeling and commercial users. These frequencies will be higher in power and very close to our frequencies. The new frequencies will be designated as mobile, therefore we would never know when and where they are operating.

We already experience problems with paging systems, broadcast stations, etc. that operate close to our assigned frequencies. Currently our equipment is manufactured to operate with 10 khz spacing between frequencies. The proposed changes specify 2.5 khz spacing which would invalidate all of our R/C radio equipment and would greatly impact the many small and medium businesses which design, manufacture and sell such equipment.

Your prompt attention to this matter is greatly appreciated by myself and fellow R/C modelers.

Sincerely Yours,

  
Martin G. Crawley

RECEIVED

JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Federal Communications Commission  
1919 M Street, NW  
Washington, D.C. 20554

RECEIVED

JAN 26 1993

FCC MAIL ROOM

111 Sleepy Oaks Road  
Ft. Walton Beach, FL 32548  
20 January 1993

DOCKET COPY ORIGINAL


Gentlemen,

I object strongly to the passage of FCC Notice of Proposed Rule Making (NPRM) PR Docket 92-235. This proposal would intersperse other frequency users within those allocated for the use of radio controlled devices in the 72 and 75 MHz bands. The proximity of the proposed user's frequencies would make those allocated for radio control unusable when the adjacent user's transmitters were in operation. The mobile nature of the proposed users would make it impossible for those who use the radio control frequencies to know when interference would occur. If the radio controlled device was an aircraft, the safety of anyone in the vicinity would be in jeopardy when interference occurred. The only prudent course of action would be to cease flying radio controlled aircraft if the proposal passes. This is unsatisfactory and unreasonable.

I have enjoyed the sport of flying radio controlled aircraft for nearly 39 years. It was one of the reasons why I became an aeronautical engineer and an officer in the United States Air Force. It continues as a significant factor in my life. Competing in local and national contests, gives me a welcome change of pace from my normal workday's activities and pressures. My financial investment in the sport of radio controlled aircraft is substantial. Including aircraft, engines, radio control devices and the assorted equipment, I have over \$10,000 invested in my sport. There are more than 100,000 radio control sportsmen/women in this country who, like me, have similar investments.

We deserve better than what this proposal would thrust upon us. I strongly urge that you do not pass NPRM PR Docket 92-235.

Sincerely,



Ronald E. Van Putte Maj USAF ret

Richard Magez  
1417 Highcrest Dr.  
Hixson, Tn. 37343

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JAN 26 1993

FCC MAIL ROOM

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JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

DOCKET FILE COPY ORIGINAL  
January 23 1993

Dear Sirs:

It has recently come to my attention that the Federal Communications Commission (FCC) is considering an action that will severely limit and potentially eliminate a very important hobby of mine, radio controlled (R/C) model airplanes, helicopters, cars, and boats.

Your Notice of Proposed Rule Making (NPRM) in **PR Docket 92-235** replaces Part 90 of your rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 Mhz band and 10 of the 30 frequencies on the 75 Mhz band now used by hobbyists. In fact, more channels will likely be affected.

**This action will have a severe, detrimental impact upon me and the entire R/C hobby industry. If put into effect, my airplane or helicopter could easily be shot out of the sky by a mobile user I'd have no way of knowing about. This creates a severe health hazard.**

I have been involved in this hobby for 17 years, I own 2 radios and 10 model airplanes, helicopters, cars, boats. In addition, I have numerous engines, motors, chargers, field accessories and other products necessary to support my hobby. When you consider there are hundreds of thousands of other R/C hobbyists in the U.S. just like me, these proposed rule changes will affect a lot of people economically and in terms of enjoyment.

**I urge you to reconsider this. Keep 10 Khz spacing between all frequencies on 72 Mhz and 75 Mhz bands available for safe use by R/C enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.**

Thank you for your consideration.

Sincerely,

*Richard Magez*

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JAN 26 1993

FCC MAIL ROOM

January 25, 1993

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

Dear Sirs:

It has recently come to my attention that the Federal Communications (FCC) is considering an action that will severely limit and potentially eliminate a very important hobby of mine.

Your Notice of Proposed Rule Making (NPRM) in PR Docket 92-235 replaces Part 90 of your rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 MHz band and 10 of the 30 frequencies on the 75 MHz band now used by hobbyists. In fact, more channels will likely be affected.


This action will have a severe, detrimental impact upon me and the entire R/C hobby industry. If put into effect, my airplane or helicopter could easily be shot out of the sky by a mobile user I'd have no way of knowing about. This creates a severe health hazard.

I have been involved in this hobby for several years. I own many radios and model airplanes. In addition, I have numerous engines, motors, chargers, field accessories and other products necessary to support my hobby. When you consider there are hundreds of thousands of other R/C hobbyists in the U. S. just like me, these proposed rule changes will affect a lot of people economically and in terms of enjoyment.

I urge you to reconsider this. Keep 10 Khz spacing between all frequencies on 75 MHz and 72 MHz bands available for safe use by R/C enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.

Thank you for your consideration.

Sincerely,

  
DAVID P. STUBBS  
3611 ALLANDALE LN  
MEMPHIS, TN 38111  
AMA # 346587

RECEIVED

JAN 26 1993

FCC MAIL ROOM  
RECEIVED

JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

[Date]  
DOCKET FILE COPY ORIGINAL

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

Dear Sirs:

It has recently come to my attention that the Federal Communications Commission (FCC) is considering an action that will severely limit and potentially eliminate a very important hobby of mine, radio controlled (R/C) model airplanes, helicopters, cars and boats.

Your Notice of Proposed Rule Making (NPRM) in PR Docket 92-235 replaces Part 90 of your rules with a new Part 88. Part 90 allows for safe use of R/C aircraft and surface models by keeping 10 Khz spacing between fixed commercial users and frequencies used by R/C enthusiasts. The new Part 88 will allow mobile users on frequencies within 2.5 Khz of frequencies available to us, eliminating safe use of at least 31 of the 50 channels on the 72 MHz band and 10 of the 30 frequencies on the 75 MHz band now used by hobbyists. In fact, more channels will likely be affected.

This action will have a severe, detrimental impact upon me and the entire R/C hobby industry. If put into effect, my airplane or helicopter could easily be shot out of the sky by a mobile user I'd have no way of knowing about. This creates a severe health hazard.

I have been involved in this hobby for 11 years. I own 7 radios and 7 model airplanes, helicopters, cars and boats. In addition, I have numerous engines, motors, chargers, field accessories and other products necessary to support my hobby. When you consider there are hundreds of thousands of other R/C hobbyists in the U.S. just like me, these proposed rule changes will affect a lot of people economically and in terms of enjoyment.

I urge you to reconsider this. Keep 10 Khz spacing between all frequencies on 75 MHz and 72 MHz bands available for safe use by R/C enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.

Thank you for your consideration.

Sincerely,

Steve Wright

RECEIVED

JAN 26 1993

FCC MAIL ROOM

Star Route Box 184  
Lewis Run, PA 16738  
January 22, 1993

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

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JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

DOCKET FILE COPY ORIGINAL

Dear Sirs:

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**This action will have a severe, detrimental impact upon me and the entire R/C hobby industry. If put into effect, my airplane or helicopter could easily be shot out of the sky by a mobile user I'd have no way of knowing about. This creates a severe health hazard.**

I have been involved in this hobby for 5 years. I own 6 radios and 6 model cars and 1 airplane. In addition, I have numerous engines, motors, chargers, field accessories and other products necessary to support my hobby. When you consider there are hundreds of thousands of other R/C hobbyists in the u.S. just like me, these proposed rule changes will affect a lot of people economically and in terms of enjoyment.

**I urge you to reconsider this. Keep 10Khz spacing between all frequencies on 75 MHz and 72 MHz bands available for safe use by R/C enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.**

Thank you for your consideration.

Sincerely,



Janice Himes

January 22, 1993

Federal Communications Commission  
1919 M St., NW  
Washington, DC 20554

In Re: PR Docket 92-235

Dear Sir/Madam:

DOCKET FILE COPY ORIGINAL

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JAN 26 1993

FCC MAIL ROOM

RECEIVED

JAN 26 1993

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

I have been actively involved in model aviation for over 10 years. Model aviation is both a hobby and a sport for me, and it consumes several hours of my leisure time each week. I am currently active in a local club whose approximately 75 members, like me, enjoy constructing and operating radio controlled model airplanes. The club is a focal point of social activity, both at the flying field and at monthly meetings.

I am very concerned about proposed rules that are currently under consideration by the Federal Communications Commission (FCC). The proceeding is PR Docket 92-235. If adopted, the new rules will greatly reduce the usability of frequencies currently assigned for model use and increase the risk of accidents and attendant liability for controlling model airplanes.

Our radio control frequencies are in the 72 – 76 MHz band. This band is primarily used for private land mobile dispatch operations. However, our radio control frequencies in this band are far enough apart from the land mobile frequencies that we have been able to share the band without either use interfering with the other.

Now the FCC wants to create more land mobile frequencies by splitting them into narrower bandwidths and rearranging the band plan. As a result, many land mobile frequencies will move closer to the radio control frequencies and cause interference to radio control operations. I am told that of the 50 frequencies that are presently available for radio control of

model airplanes, only 19 frequencies will be left if these new rules are adopted.

When we fly our model airplanes under radio control, we go to great lengths to assure the safety of the operators and bystanders and the protection of property. Many of our safety precautions involve the careful coordination and use of the radio control frequencies. If the number of usable frequencies is diminished as proposed by the FCC, the remaining frequencies will become congested and the margin of safety will be greatly decreased.

Please understand that many model airplanes have wing spans up to 10 feet and weigh as much as 30 or 40 pounds. We often fly our models at organized events and contests where hundreds of operators participate. We need the use of our full complement of radio frequencies in order to assure a safe flying environment.

I do not think it is wise of the FCC to seek to improve the operating conditions of land mobile radio users at the expense of radio control modelers. The FCC may not think we are as important as business users of radios, but we have a considerable investment in our models and in our radio equipment. The sport of aeromodeling provides many hours of enjoyment to thousands of people like myself and contributes to the advancement and development of the commercial aviation industry. It also spawns a considerable amount of economic activity—in the form of purchases of products and services from hobby manufacturers—and I would hate to see the industry that supports this hobby crumble as a result of the proposed changes. Finally, the hobby/sport provides a constructive outlet (and in many cases, an aviation- or engineering-career inspiration) for our younger generation that is sorely needed.

Please help me continue the safe enjoyment of my pastime by not allowing the FCC to carry out its proposals for the 72-76 MHz band.

Sincerely,



MEMBER - FLYRC INC.

FAIRFIELD LEAGUE OF YANKEE RADIO CONTROLLERS  
DANBURY, CT. 06813



Star Route Box 184  
Lewis Run, PA 16738  
January 22, 1993

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JAN 26 1993

JAN 26 1993

Federal Communications Commission  
1919 M Street, NW  
Washington, DC 20554

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

FCC MAIL ROOM

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**I urge you to reconsider this. Keep 10Khz spacing between all frequencies on 75 MHz and 72 MHz bands available for safe use by R/C enthusiasts. Please don't eliminate this hobby that has grown tremendously over the past 30 years and has so much investment of money and enjoyment of people nationwide.**

Thank you for your consideration.

Sincerely,

*Thomas Himes*

Thomas Himes